

FORCEnet Successes Challenges and Opportunities

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COMPACFLT N6
28 June 2005

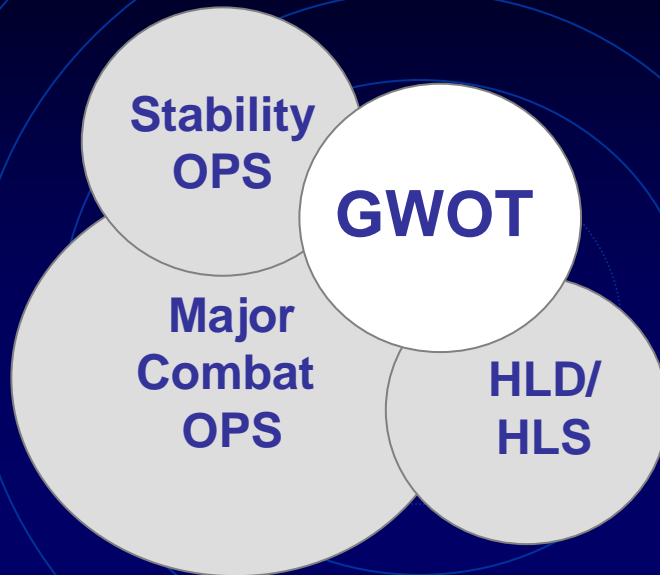
Support Strategic Challenges Complement Navy's 3/1 Strategy



Pillars of CPF C4I Strategy

- *Speed to capability*
- *Operational Availability*
- *Secure C4I/IT*
- *Interoperable (Joint/Coalition)*
- *Survivable*
- *Flexible and Tailorable*
- *Agile and Responsive*
- *Robust*
- *Assured sharing*
- *Accurate and timely*
- *Transport reliability*
- *Distributed and Networked*
- *Modular, open architecture*
- *Cost efficient*
- *Reliable*
- *Leverage existing investments*

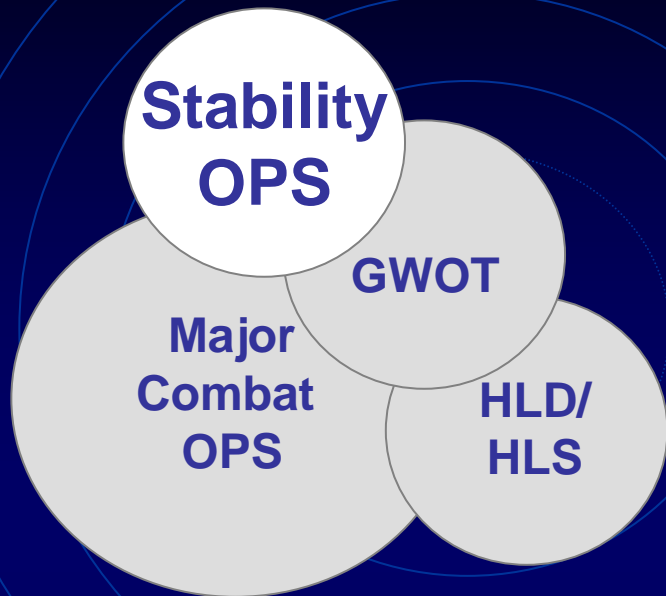
GWOT



- **Maritime Domain Awareness - Cornerstone of Actionable Intelligence**
 - *Military & Commercial Satellites*
 - *Transport reliability*
 - *Robust – Flexibility*
 - *Bandwidth and throughput*
 - *Coalition Interoperability (CENTRIXS)*
- **Disrupt and Attack Terrorist Networks**
 - *FDNF*
 - *Coalition Interoperability (CENTRIXS)*
 - *USNS Stockham E-MIO C4I model*
 - *C2 on Non-Traditional platforms*
 - *Cost Effective*
 - *Existing technologies*
 - *Speed to capability*
 - *Mobile construct*



Stability Ops



Coalition Communications

- **Humanitarian and Disaster Assistance**
 - USNS Mercy
 - Command and Control (Mobile)
 - Speed to/of Capability

FDNF

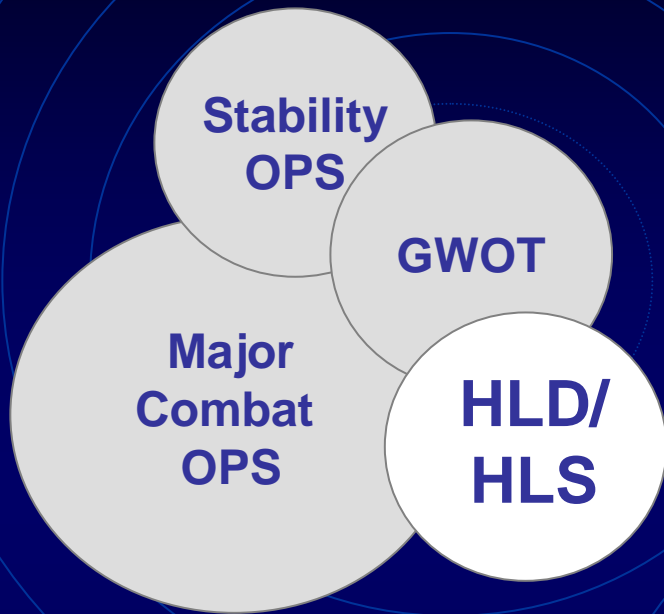
- C4I Modernization
- Kitty Hawk & Blue Ridge upgrades
 - SecNav waivers
- KHK Replacement

PACOM/Pacific Fleet Exercises

- CENTRIXS
- ONE-Net
 - CARAT, SEACAT ANNUALEX, UFL, Cobra Gold, Talisman Saber, Malabar, RIMPAC
 - Delivery of required SATCOM B/W in non-traditional areas



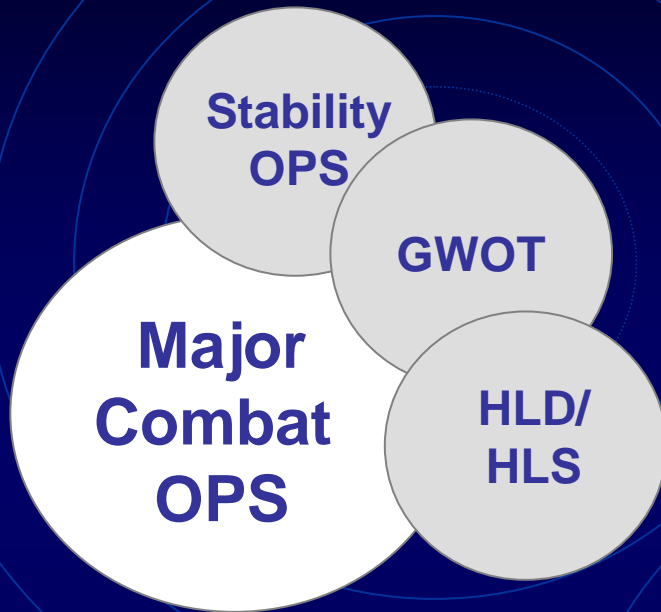
HLD/HLS



- ***Securing America's Approaches***
 - *Information Assurance – Security*
 - *NMCI*
 - *PKI/CAC/Authentication/Passwords*
 - *Information Sharing - Interoperability*
- ***Global - Maritime Domain Awareness***
 - *Military & Commercial Satellites*
- ***National Missile Defense***
 - *Navy Aegis C4 – Joint Command & Control Architecture*



Major Combat Ops



- *C4I applicability across broad mission spectrum*
- *Coalition Interoperability*
- *FDNF*
- *Joint and Combined C4*
- *Flagship Makalapa Headquarters C4*
- *Global NetOps – STRATCOM/ PACOM lanes*



Composeable FORCEnet (CFn)

- Used in real world operations last year by Fleet operators to make operational decisions
- Pulled information from sources in minutes
Analyzed raw data almost real time
- Provide actionable information in minutes not hours or months
- Thundering Dolphin – ASW Exercise
 - Used by C7F, CTF-70, CTF-72, CTF-74, CDS-15 in highly stressed scenario
 - Shared presentation of information by 3 echelons of command greatly enhanced situational awareness, improved speed and unity of command and enabled tactical decision making
 - Feedback – refine CONOPS, improve input from legacy feeds, and provide information for system improvement

CENTRIXS

- CFE—Combined Exercise Talisman Saber
 - Expanded COP, added VOIP, Time Sensitive Strike, IP based messaging, Persistent chat
 - First PACOM exercise with major air and ground component coalition play
 - Cross domain devices don't work in tactical situation. Must fight in one network
- CARAT
 - Multi-phase GWOT exercises with SE Asia Navies. Critical part of our engagement strategy
- India
 - Demo planned for July to be followed by Malabar exercise in September (4 ships plus Navy HQ)
- Standing up VPN on GCTF for PACOM use in GWOT, other contingencies

Command and Control (C2)

- Mobile C2
 - Examples: USNS STOCKHAM, USNS Mercy
 - Excellent support by SPAWAR – speed to capability (added C band SATCOM, networks, special mission applications)
 - Examples of using non-traditional platforms as C2 platforms
 - HA/DR mission was run on unclass networks, but ...
- Ashore Command Center
 - C2F, C5F, C3F, C6F and JTF 519 have large shore command centers
 - Some mission differences, but large group of common requirements (messaging, COP, CENTRIXS, etc)
 - Need POR support

Challenges and Opportunities

- How deliver robust consistent innovative solutions?
- How capture operational use/impact of technology/tools?
- How support end to end: configuration management, business rules, spares, maintenance, training, personnel?
- How formalize in Programs of Record?
- How deliver solutions quickly?
- How deal with IA/C&A requirements quickly?